

ABSTRACT

Method and apparatus for data packet transport in a wireless transmission system supporting broadcast transmissions. A multicast tree is built between nodes through neighboring routers. The multicast tree forms a tunnel through which the broadcast content is transmitted. The broadcast message is encapsulated in an Internet Protocol packet for transmission through the multicast tree. At least one multicast tree is formed between the Internet portion of the system and the wireless portion of the system, such as the Access Network. In one embodiment, an external multicast tree is formed between a content source and a packet data service node, and an internal multicast tree is formed between the packet data service node and a packet control function node.

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